

CLAIMS

1. A takeout mechanism for gripping a bottle formed at the blow station of an I.S. machine and removing it from the blow station and depositing the gripped bottle at a deposit location, wherein the bottle has an upper neck portion and a lower body portion comprising

a takeout head assembly including gripper means for gripping a bottle,

a takeout arm for supporting said takeout head assembly,

support means for supporting said takeout arm for displacement between a pick-up position and the deposit position,

first displacement means for displacing said takeout arm between said pick-up and deposit positions,

said takeout head assembly further comprising a cooling tube selectively displaceable between an up position and a down position, and

said second displacement means including a profiled actuator including a displacement profile for controlling the displacement of the blow tube from the up position to the down position,

the displacement profile being selectively defined to correlate with the cooling requirements of the bottle as the blow tube is displaced from the up position to the down position.

2. A takeout mechanism according to claim 1, wherein said profiled actuator is a servomotor.

3. A takeout mechanism according to claim 1, wherein said displacement profile will additionally cause said cooling tube to dwell at the bottom of the bottle for a selected period of time.

4. A takeout mechanism according to claim 1, wherein the profiled actuator of said second displacement means further includes a displacement profile for controlling the displacement of the blow tube from the down position to the up position,

the displacement profile being selectively defined to correlate with the cooling requirements of the bottle as the blow tube is displaced from the up position to the down position.

5. A takeout mechanism according to claim 1, wherein the bottle has a lower body portion and an upper neck portion and there is less heat to be removed from the up position to the location where the upper neck portion meets the lower body portion than from the location where the upper neck portion meets the lower body portion to the bottom of the blown parison and the profile displaces the blow tube from the up position to the position where the upper neck portion meets the lower body portion at an average velocity higher than the average velocity at which the profile displaces the blow tube from the location where the upper neck portion meets the lower body portion to the bottom of the blown parison.

6. A takeout mechanism according to claim 5, wherein said profiled actuator displacement profile will additionally displace the cooling tube from the down position up to the location where the upper neck portion meets the lower body portion at an average velocity lower than the average velocity at which the cooling tube will be displaced from the location where the upper neck portion meets the lower body portion to the up position.